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Инструкция для AirTies Air 4420-TV

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AirTies

Wireless Kit / Wireless Network Extender

USER MANUAL

Air 4420

24/7 people support
0845 557 5782 (from United Kingdom)
+90 212 444 0239 (International)

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Manual Overview

This manual guides you through the steps necessary for setting up and configuring your AirTies device. Please read this manual carefully before beginning the installation process.

The Warranty does not cover failure or damage as a result of not following the instructions in the manual. AirTies will not be held responsible in such circumstances.

The User Manual is an important resource you can refer to for safe and proper use of your device. Please retain it for future reference.

Safety and Maintenance

- In order to prevent damage to your device, be sure to keep it in its original box during transportation.
- The device must be used solely with its original power adapter. Please note that the adapter is 220V only. Do not use with 110V AC.
- Do not insert a PSTN (phone) plug into the LAN port.
- If you encounter any problems, do not open or disassemble the device. Call AirTies Technical Support.
- In order to prevent electric shock, do not operate the device in wet or damp areas.
- In the event of a gas leak, do not use the device. Do not turn the device on or off. Do not plug or unplug the power cord.
- Avoid using the device in dusty environments. If dust buildup should occur, use a dry cloth to remove the dust.
- To clean the exterior of the device use a dry cloth. Do not attempt to clean the interior. There are no user serviceable components inside.
- For information regarding the installation and configuration of the device consult the remainder of this manual.
- The average usage life of the device is 7 years as determined by the Authority of Industry and Trade.

1. INTRODUCTION

The AirTies Air 4420 is an IEEE 802.11b/g/n compliant, 300 Mbps wireless communication device that can be used as a wireless access point, repeater or as a bridge (using two Air 4420s).

You can connect the AirTies Air 4420 to a wired modem or router through the Ethernet port to setup a wireless local network and enable wireless computers to access the Internet.

As a repeater, the Air 4420 makes it possible to extend the coverage area of a wireless network. AirTies Mesh Technology is used for this purpose. The AirTies Mesh Technology resolves problems such as loss of wireless signal or limited coverage area often encountered in multiple-story or reinforced concrete buildings. To extend your wireless coverage, all you need to do is to add new Air 4420 devices to your wireless network and add them to the Mesh network. Computers on the network connect to the Air 4420 with the strongest signal and reach the router on the wired network through the Mesh network.

Using two Air 4420s, devices such as TVs, Set Top Boxes and games consoles can be connected to the router by creating a wireless bridge between the two Air 4420s.

1.1 Minimum System Requirements

- For installation an existing router is required.
- For the AirTies Network Assistant utility a PC is required running Windows XP (Service Pack 2 and above), Windows Vista or Windows 7.

1.2 Package Contents

Please check to make sure the parts below are in the box:

For Air4420-TV, Air4420-STB, Air4420-GA

1. Two Air4420s
2. Two 12V Power Supplies
3. Two Ethernet Cables
4. One Easy Setup CD
5. One Quick Installation Guide
6. One Warranty Card and Certificate of Compliance

1 2 3 4 5 6

For Air 4420

1. One Air4420
2. One 12V Power Supplies
3. One Ethernet Cables
4. One Easy Setup CD
5. One Quick Installation Guide
6. One Warranty Card and Certificate of Compliance

1

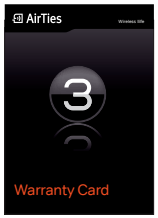
2

3

4

5

6



1.3 Front Panel

LED	LIGHT	STATUS
Power	**Blue**	The device is ON
	Off	The device is OFF
Ethernet	**Red**	LAN connection established and active
	Red Flashing	LAN connection active. There is data exchange
	Off	No LAN connection
Wireless	**Red**	Wireless network connection established and active
	Red Flashing	Data exchange on the wireless network connection
	Off	No wireless network connection
USB	**Red**	Connection to USB device is established
	Off	Connection to USB device not established

1.4 Back Panel

Power Switch	Move to | position to power device
12 V Power Port	12 V power. Connects to power adapter
Ethernet Port	Ethernet port
Reset Button	Use to restore factory defaults
USB Port	Connect to USB disks and printers to share on network

To reset the device use a sharp object to press and hold the button while the device is turned on.

1.5 Main Features

Multi-function: Access Point, Repeater, Bridge, Router

USB Plug & Share : This feature allows for printers and disks to be shared on the network.*

Media Server: Play media from an attached USB disk on a UPnP AV / DLNA compliant Media Player. *

Advanced Wireless Security: WPA2-PSK, WPA2-802.1x, WPA-PSK, WPA-802.1x, WEP wireless encryption standards supported.

24 / 7 Technical Support: AirTies Call Centre provides access to technical specialists.

3 Year Extended Warranty:

*Available on Air 4420-TV, Air 4420-GA and Air 4420 products.INSTALLATION

FROM QIG –AIR 4420-TV Exclude AirTies Network Assistant and Media Server installation section.

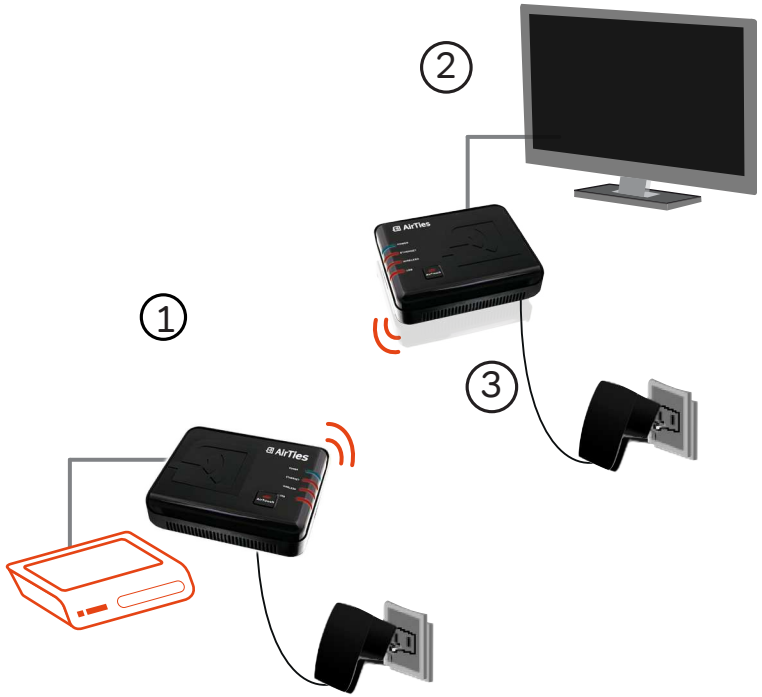
2 INSTALLATION

2.1 Cabling

First complete the cabling process as shown in the diagram.

1. Using the black Ethernet cable, connect one Air 4420 to your existing gateway. Make sure your gateway is turned on.
2. Using the black Ethernet cable, connect the other Air 4420 to your TV, set-top box or games console.
3. Connect the power adapters inside the box to the power sockets of each Air 4420 and plug into electric sockets.
4. Turn on both Air 4420s by switching the On/Off button to position “1”.

2.2 Setup



2.3 Advanced setup using AirTies Network Assistant

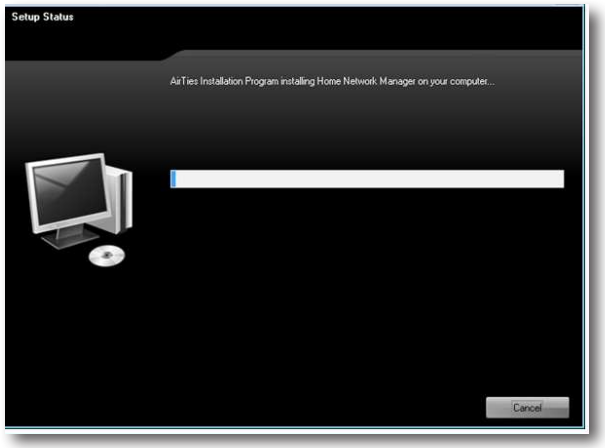
AirTies Network Assistant is an application that will setup and configure, monitor and manage home networks. It has been specifically designed to enable non technical users to perform tasks that are important to effectively managing the home network.

Your AirTies product will be provided with a CD that contains the AirTies Network Assistant application. Alternatively you can download the latest version from www.airties.com.

AirTies Network Assistant can be installed on as many PCs as you would like and can also be used to monitor networks that do not contain AirTies devices, although many key features will be missing because they require AirTies devices.

2.3.1 Installation

During AirTies Network Assistant installation your AirTies device will be setup and configured.
Insert the CD that came with your AirTies device into the CD ROM drive of your PC, after a few seconds the animation will run (see below).
Select the product category and product that you want to configure from the menu.
Follow the animation showing how to configure the cabling of the product. Ensure that you following the cabling for your product in according to the animation.
After cabling animation has completed AirTies Network Assistant is installed:



Once AirTies Network Assistant has completed installation the setup program will run:

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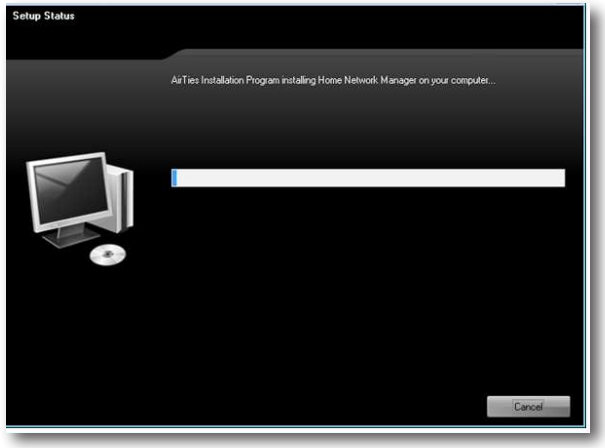
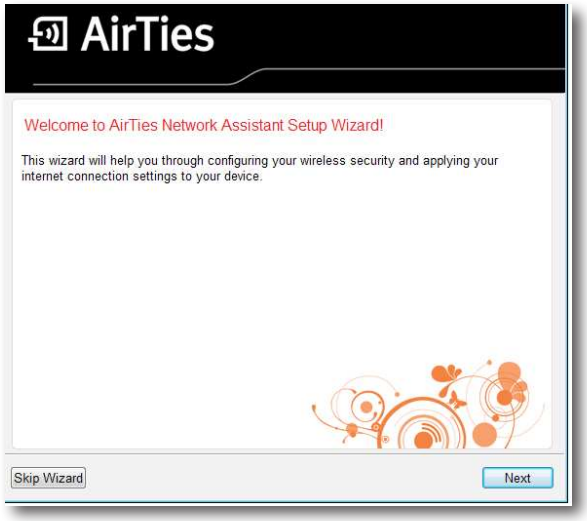


Once AirTies Network Assistant has completed installation the setup program will run:

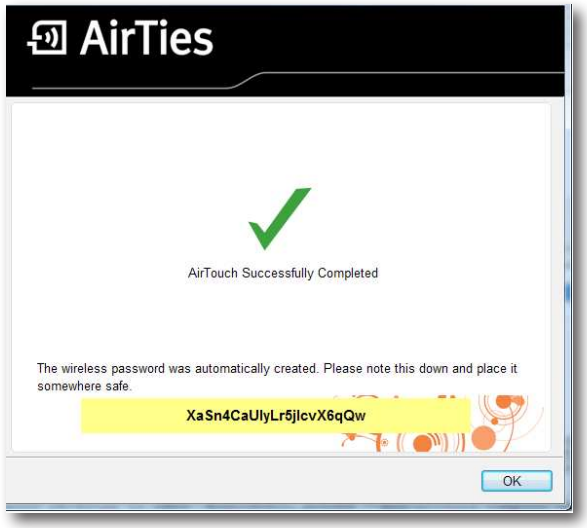

AirTies
Welcome to AirTies Network Assistant Setup Wizard!
This wizard will help you through configuring your wireless security and applying your internet connection settings to your device.
Skip Wizard
Next

Click **Next** to setup your device.If your device and PC supports AirTouch then you will be prompted to press the button on your device to initialise AirTouch:

Press the AirTouch button on your AirTies device and click the AirTouch button. A secure connection will be initialised between the AirTies device and PC

running AirTies Network Assistant, which includes an automatically generated wireless key.

Once the wireless connection has been created and the device configured the wireless security key is displayed. Copy this if you want to share the connection with other non Windows 7 devices.


AirTies
AirTouch Successfully Completed
The wireless password was automatically created. Please note this down and place it somewhere safe.
XaSn4CaUlyLr5jlcvX6qQw
OK

If your AirTies device does not support AirTouch then you will be prompted to configure the wireless security manually for your device:

Select WPA/WPA2 as the Security Mode. This is the highest level of security that you can configure.
Enter a Wireless Network Name (SSID). This is the name that appears when you search for wireless networks from a PC.
Enter a password for the wireless network. This should be at least eight characters long. You can see the characters by unchecking **Hide characters**.
Click **Next** .

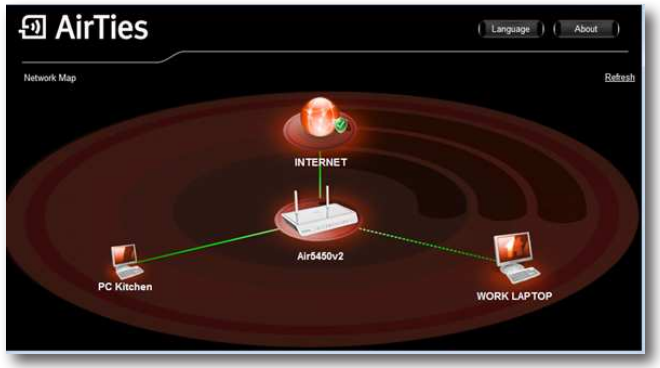
2.3.2 Running AirTies Network Assistant

The AirTies Network Assistant application will always run in the background and can be accessed by clicking the AirTies logo in the notification area (bottom left corner, next to the clock). AirTies Network Assistant starts every time the PC starts, allowing for the network to be continually monitored.

If you want to exit AirTies Network Assistant then you must right click the AirTies logo in the notification area and select “exit”.
If AirTies Network Assistant is not running and you want to run it then you must select the **AirTies Network Assistant** application from the start menu under **All Programs** > **AirTies Wireless Networks** > **AirTies Network Assistant.**

2.3.3 Network Display

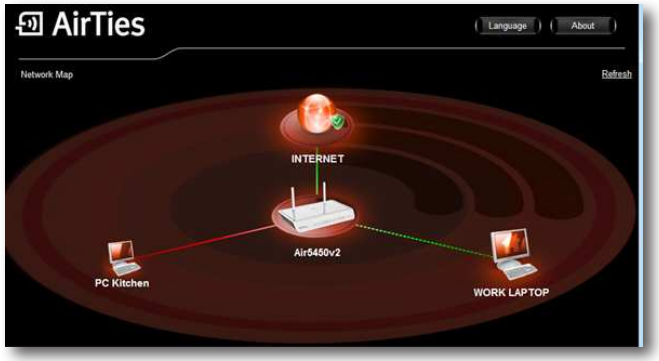
The network display is the central component of AirTies Network Assistant. Here all devices on the network are displayed with information about each device, status of network connection and problems with the network.
Once AirTies Network Assistant has been installed and the connection between your PC and your AirTies device has been configured then the network display will be shown to the user. For normal usage when AirTies Network Assistant starts the network display will be shown.



Your router device is the device that has a connection to the Internet. It is the device that connects the home network to the Internet and is usually a gateway device such as an ADSL modem. There should only be one routing device on your network and this device is placed in the middle of the AirTies Network Assistant network display.

From the router device the Internet and local network device are connected. A green line indicates that a device is connected. A red line indicates that a device is not connected. As new devices are added to the network they will appear on AirTies Network Assistant. If a device is removed from the network then it will disappear from the network GUI after it has been disconnected for four hours. Dotted lines indicate a wireless connection and non dotted lines indicate a cable connection.

A red cross on the line indicates that there is a problem. Clicking this will launch the trouble shooter application, which will identify the problem and attempt to solve it.



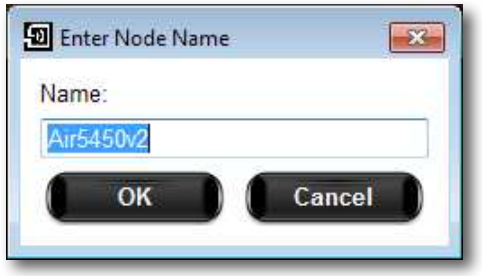
The network map should be updated automatically as new devices are added to the network. However, if the network map is not accurate then a manual refresh can ran by clicking the refresh button on the top right of the screen. Each AirTies product will be displayed with their image on the network map. Non AirTies devices will be displayed with a generic image. It is not possible to manage non AirTies devices but the network can still be displayed on AirTies Network Assistant.

Any devices that are present on your network map but that you do not know should be investigated. Enabling wireless security or changing existing wireless security (see below) will ensure that intruders cannot continue to access your network.

Clicking an AirTies device allows for configuration to be updated.

2.3.4 Change Node Name

Each device has a name, which is either the host name or the IP address. The node name can be updated to make it easier to keep track of devices on the network. For example, a games console may show on the network map as an IP address like 192.168.2.55 but can be renamed to be “games console 1”.



2.3.5 Show Properties

The properties can be displayed for each device. Properties for AirTies devices are displayed:

Properties for local computer running AirTies Network Assistant are displayed:

2.3.6 Wireless Settings

The wireless settings of the device can be changed:

The security mode can be changed to either None or WPA/WPA2.
The Wireless Network Name (SSID) can be changed. This is the name that appears when you search for wireless networks from a PC.
The password used to connect to the wireless network can be changed. This should be at least eight characters long. You can see the characters by unchecking **Hide characters**.
Click **OK** to save your settings.
Click Advanced to show all Internet settings.

Click Cancel to cancel any changes made and return to the network map. Note that for devices that are connected via MESH changes made to the gateway will be propagated to all devices connected via MESH.

2.3.7 USB Status

USB status shows whether a printer or USB disk is inserted into the device. For disks the amount of free disk space is displayed:

For printers the printer model is displayed:

2.3.8 Firmware Upgrade

AirTies Network Assistant will automatically check for new firmware updates for devices. If new firmware is available then an icon will be displayed on the device to let the user know that there is new firmware available. Clicking on the icon will perform a firmware upgrade on the device.

A manual update can also be made by selecting **Firmware Upgrade**. A check will be made for new firmware:

If no firmware was found then the user will be informed:

If new firmware is discovered then the firmware on the device will be updated.

For the local PC there is a software upgrade option instead of firmware upgrade. This will check for any newer versions of AirTies Network Assistant and update if the user requests.

2.3.9 User Info

Registering a device provides AirTies with useful information that we use to help the customer with if they have a problem and also use to help us improve our products and customer experience. Each AirTies device on the home network can be registered with AirTies.

If a user does want to register then they can select Do not register from the drop down box.
Click OK to save your settings.
Click Cancel to cancel any changes made and return to the network map.

Advanced settings open the devices' Web configuration page and allow for all other settings to be updated by the user (see settings below).

2.3.10 USB Host

2.3.10 .1 USB Disk

If a USB disk is attached to your AirTies device then a USB drive icon will appear next to your AirTies device on the network map.

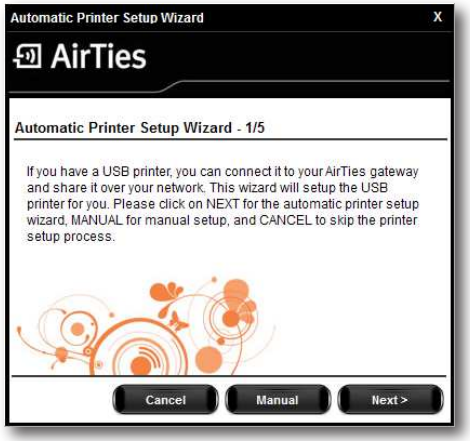
Clicking the USB disk icon will open an explorer window showing the drive contents

2.3.10.2 USB Printer

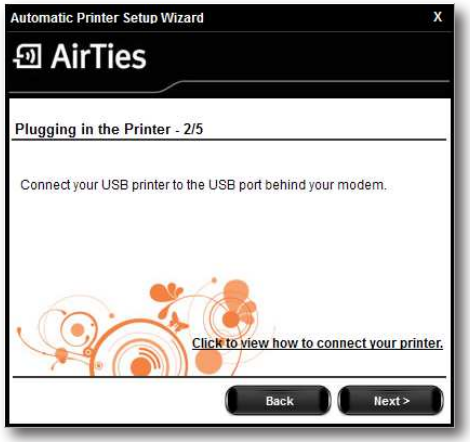
If a USB printer is attached to your AirTies device then a printer icon will appear next to your AirTies device on the network map.

Clicking the icon will install a printer on your PC. Note that you must have the printer drivers installed on yor PC, please install the prinet to your PC using instrucstions and software from the printer manufacturer.

Click **Next** to install the printer.


Automatic Printer Setup Wizard
X
AirTies
Automatic Printer Setup Wizard - 1/5
If you have a USB printer, you can connect it to your AirTies gateway and share it over your network. This wizard will setup the USB printer for you. Please click on NEXT for the automatic printer setup wizard, MANUAL for manual setup, and CANCEL to skip the printer setup process.
Cancel
Manual
Next >

Ensure that the printer is connected to the device and click **Next**


Automatic Printer Setup Wizard
X
AirTies
Plugging in the Printer - 2/5
Connect your USB printer to the USB port behind your modem.
Click to view how to connect your printer.
Back
Next >

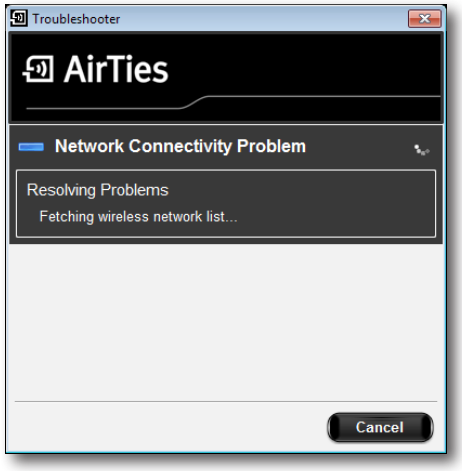
The printer will be created as a Windows printer. Click **Print Test Page** to test that the printer has been successfully setup. Cick **Finish** to finish.

When you print from to the Windows printer on your PC it will print to the printer connected to your AirTies device.

2.3.11 Troubleshooting

AirTies Network Assistant automatically detects problems on the home network and attempts to solve this issues with the Troubleshooting application.
When the connection between the PC and gateway or between the PC and Internet is cut off then the network map shows the network link with a cross, to indicate that that there is a problem:

Clicking on the red cross initiates the troubleshooting application. The application will determine what the problem appears to be:



The troubleshooting application will try and resolves the problem. The user will be prompted with the proposed solution and asked if they are required to carry out an action. For example, below the solution is for the user to turn on the wireless switch on their PC.

Once the network connection has been restored troubleshooting closes.
Troubleshooting has been designed to solve all the major problems that user may typically face.
Troubleshooting may be automatically executed during setup.

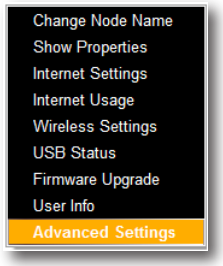
2.3.12 Adding AirTies Devices

When another device is added to the network then it will be displayed in the network map. If the new device is an AirTies device then the user s prompted to register the device.

The user can choose not to register the device, register as a new user or use an existing user's details that already has devices registered to them on the network.
Clicking OK resisters the new device.
Clicking Cancel closes the prompt.

3 ADVANCED SETTINGS

From the AirTies Network Assistant network diagram you can open the advanced settings of your device by clicking your device on the network diagram and selecting Advanced Settings.



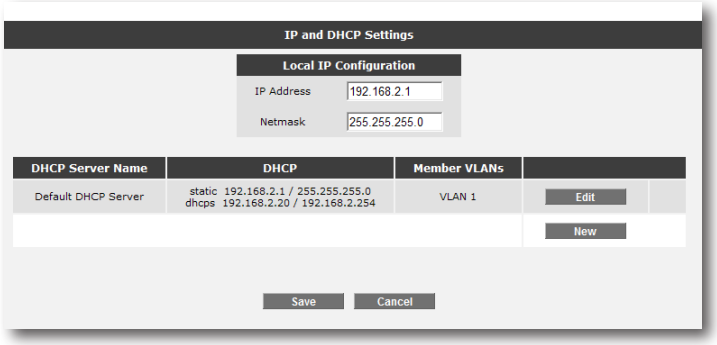
Accessing Advanced Settings with a Static IP

3.1 LAN Settings

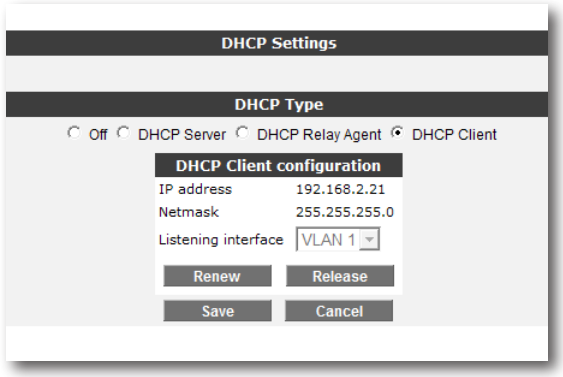
3.1.1 IP and DHCP Settings

By default the your device is configured to get an IP address from a gateway on the Internet. If no DHCP (**D**ynamic **H**ost **C**onfiguration **P**rotocol) server can be found on the network then the device will default to the IP address of 192.168.2.154.

You can configure the IP and DHCP Settings of your device, from the **IP and DHCP Settings** submenu under the **LAN** menu.



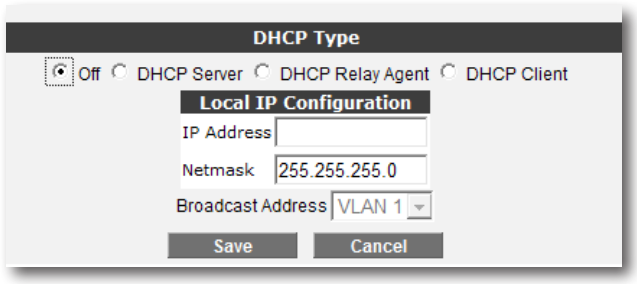
Click **Edit** to change the DHCP settings.



The DHCP Type can be changed as follows:

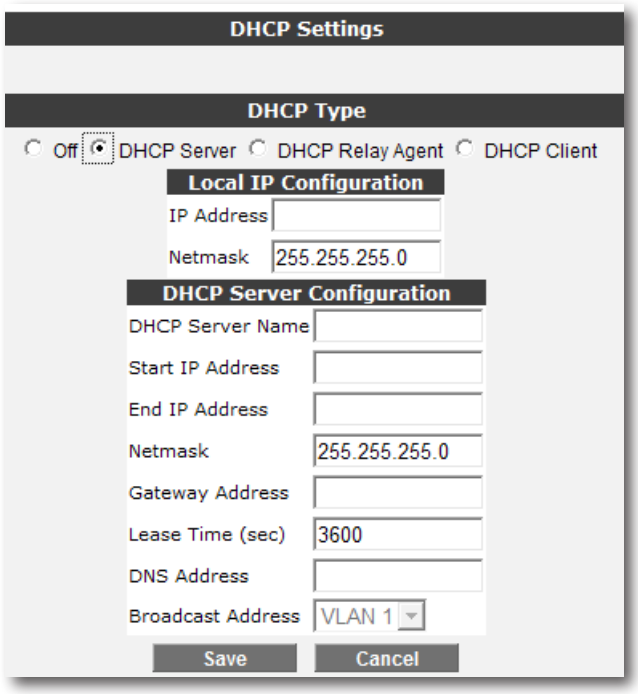
Off
DHCP Server
DHCP Relay Agent
DHCP Client

Disable DHCP (Off)



No DHCP is used. The device must be manually assigned an IP address. To disable DHCP select Off and enter an IP address and Netmask. Click **Save** to save your settings.

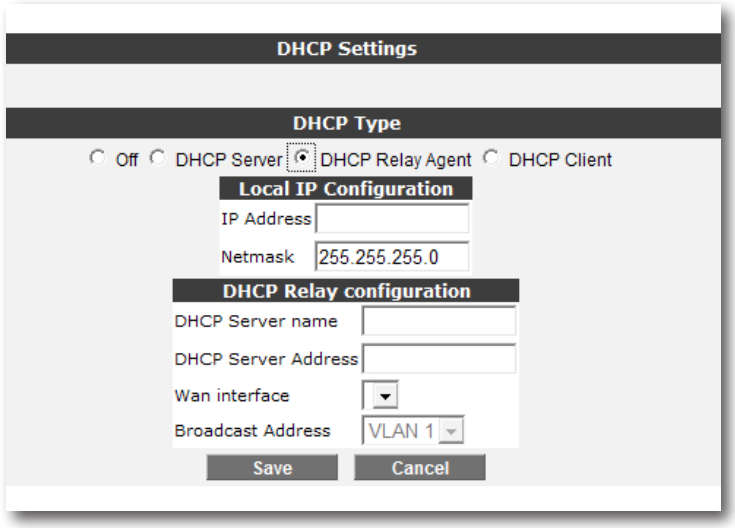
Enable DHCP Server



DHCP Server mode configures the device to assign IP addresses to connecting devices. **There must only be one DHCP Server on the network, which in most cases will be the router.**

DHCP is enabled by default. In this section you can assign an address range from which your device can assign local IP addresses to clients and the lease time. The default IP address range is 192.168.2.2 through 192.168.2.254. Maximum lease time for an assigned IP address is set as 3600 seconds, which means the assigned IP address will be renewed every 3600 seconds.
To configure the device as a DHCP server select **DHCP Server** and enter an IP address, Netmask, DHCP Server Name, Start and End addresses that will be assigned devices, Netmask, Gateway Address, Lease Time, DNS Address. Click Save to save your settings.

Enable DHCP Relay Agent

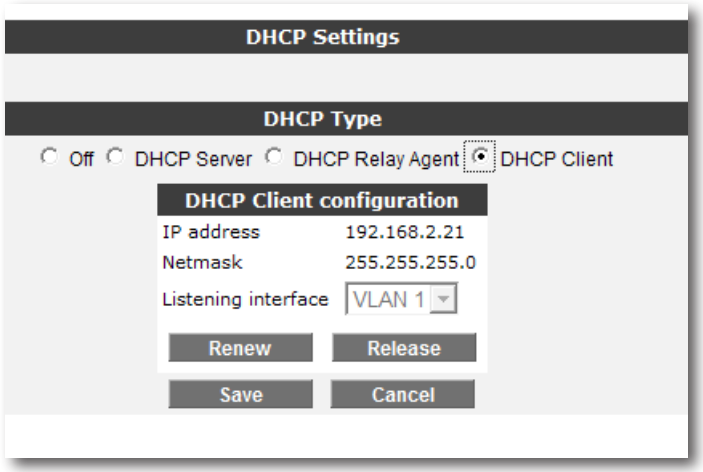


DHCP relay makes it possible for a DHCP server on a different network to assign local IP addresses to clients connected to your device. To enable this, the address of the device (modem, server etc) that runs the DHCP service needs to be known.

If DHCP Relay is enabled the DHCP server on your device is disabled and cannot assign IP addresses to clients.

To configure DHCP Relay Agent select **DHCP Relay Agent** and enter an IP address for the device, DHCP Server name and address of the DHCP Server. Click Save to save your settings.

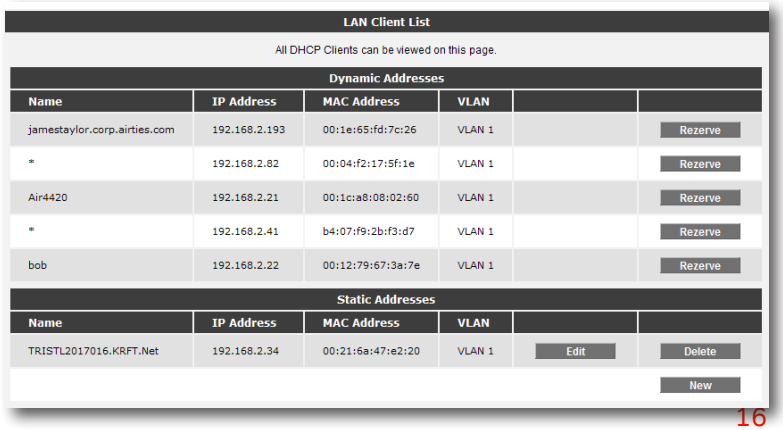
Enable DHCP Client



DHCP client mode configures the device to obtain an IP address from a DHCP server on the network. To enable DHCP client select **DHCP Client**. Click Save to save your settings.

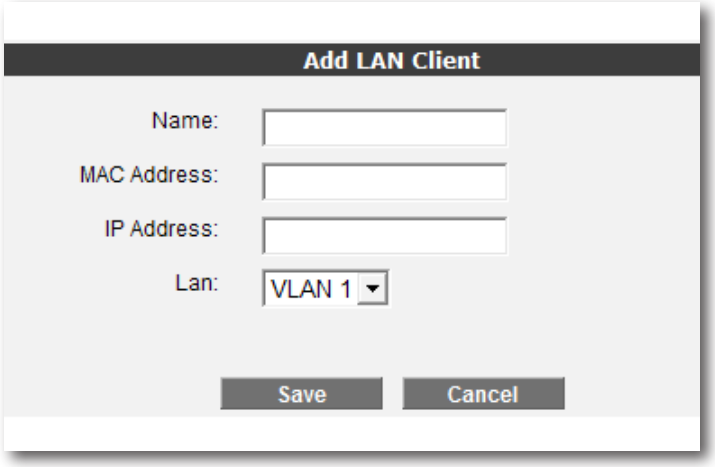
2.1.2 LAN Clients

If the device is configured as a DHCP server then you can see a list of all the clients connected to the device. Select **LAN Client** under the LAN menu of the Web Interface. Through this menu, you can also reserve an IP address for a client. When an IP address is reserved for a client, it cannot be assigned to any other client. Whenever the client connects to the router, it gets the IP address reserved for it. Click the reserve button next to a dynamic address to reserve this as a static address.



You can see the IP addresses that are reserved in the **"Static Addresses"** table. **"Dynamic Addresses"** table shows the IP addresses assigned but not reserved.

To new static address click **"New"**. Enter the Name, MAC Address, IP Address and select the LAN. Click save to create the new static address.

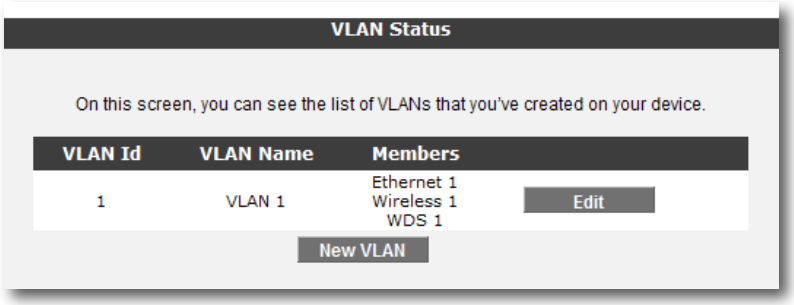


3.1.3 VLAN Configuration

Virtual Local Area Networks (VLANs) separate a single physical network into multiple logical networks. A reason why you may create a VLAN is if you want to separate your network for security reasons, your guests can use one VLAN and you can use another.

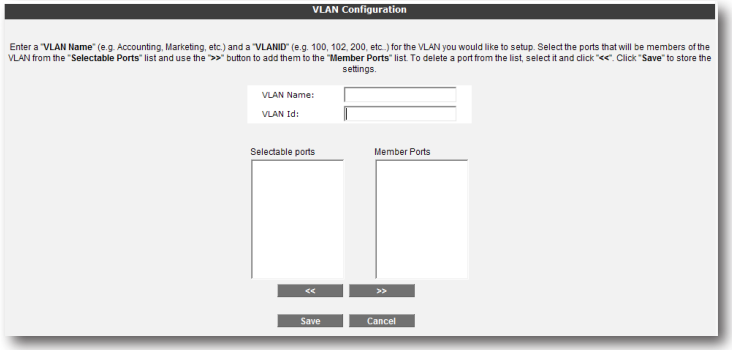
By default the device is configured to operate over a single VLAN..

To configure VLANs select **VLAN Configuration** under the **LAN** menu.



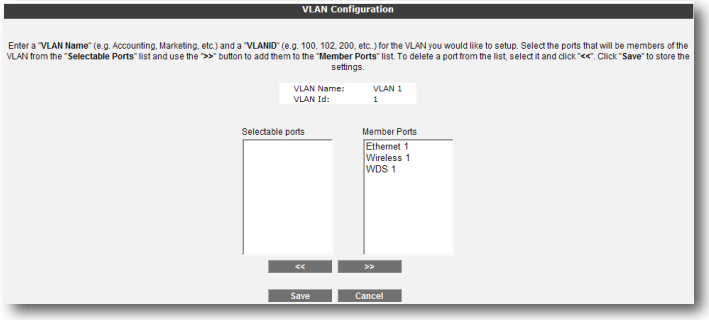
A list of VLANs will be shown. By default there will be a single VLAN named VLAN 1. This is the entire network.

To create a new VLAN click **New VLAN.**


VLAN Configuration
Enter a "VLAN Name" (e.g. Accounting, Marketing, etc.) and a "VLANID" (e.g. 100, 102, 200, etc.) for the VLAN you would like to setup. Select the ports that will be members of the VLAN from the "Selectable Ports" list and use the ">>" button to add them to the "Member Ports" list. To delete a port from the list, select it and click "<<". Click "Save" to store the settings.
VLAN Name:
VLAN Id:
Selectable ports
Member Ports
<<
>>
Save
Cancel

Enter a VLAN Name and VLAN Id for the new VLAN. Select the ports that you want to add to the VLAN (Ethernet ports, wireless ports). Click **Save** to save your changes.

To add or remove ports from the VLANs select **Edit** from the main VLAN menu for the VLAN that you want to update.

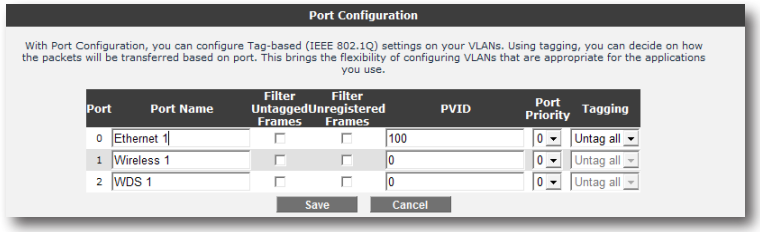

VLAN Configuration
Enter a "VLAN Name" (e.g. Accounting, Marketing, etc.) and a "VLANID" (e.g. 100, 102, 200, etc.) for the VLAN you would like to setup. Select the ports that will be members of the VLAN from the "Selectable Ports" list and use the ">>" button to add them to the "Member Ports" list. To delete a port from the list, select it and click "<<". Click "Save" to store the settings.
VLAN Name:
VLAN 1
VLAN Id:
1
Selectable ports
Member Ports
Ethernet 1
Wireless 1
WDS 1
<<
>>
Save
Cancel

From the list of selectable ports select the port that you want to add and click **>>**. Select **Save** to save your changes.
Note that a port can only be a member of one VLAN at any time so if you want to add a port to a VLAN you must first remove it from any VLAN that it is currently configured to use.Port Configuration

3.1.4 Port Configuration

Tags can be configured on each port to allow data to be separated to different VLANs.

Select **Port Configuration** from the **LAN** menu.


Port Configuration
With Port Configuration, you can configure Tag-based (IEEE 802.1Q) settings on your VLANs. Using tagging, you can decide on how the packets will be transferred based on port. This brings the flexibility of configuring VLANs that are appropriate for the applications you use.
Port
Port Name
Filter Untagged Frames
Filter Unregistered Frames
PVID
Port Priority
Tagging
0 Ethernet 1 100 0 Untag all
1 Wireless 1 0 0 Untag all
2 WDS 1 0 0 Untag all
Save
Cancel

For each port the tagging can be configured to add or remove a VLAN tag. Data can also be filtered based on untagged and unregistered frames. Click **Save** to save your changes.

3.2 Wireless Settings

Using your AirTies device as a wireless access point, you can set up a wireless hotspot with a range of up to 400 meters outdoors and 100 meters indoors. With the N wireless technology you can set up a 300Mbps wireless network. Additionally, your device is backward compatible with the 802.11b/g standard.

By using clients and access points that support 802.11n, you can achieve wireless transfer rates of up to 300 Mbps. Additionally, the MIMO mode supported by the 802.11n standard gives you a much broader wireless range than 802.11b/g devices.

3.2.1 Connecting to your device

Your device has wireless networking enabled by default. No additional configuration is needed for your wireless computers to access the Internet. However, it is recommended that you configure wireless security as explained in the sections that follow.

In order to connect your laptop to the AirTies device wirelessly:

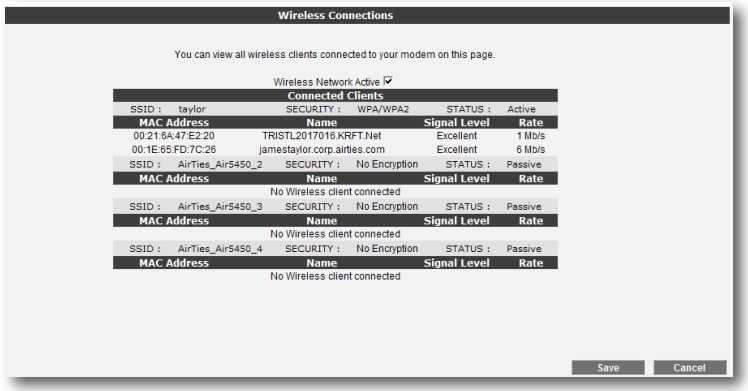
If using Windows XP go to **Start > Control Panel > Network Connections > Wireless Network Connection > View Wireless Networks**. On the **Wireless Network Connection** screen, select the wireless network named **AirTies_ Airxxxx** and click **Connect**.

If using Windows 7 or Vista go **Start > Control Panel > Network and Sharing Center > Manage Wireless Networks > Connect to a network.** Select the wireless network named **AirTies_ Airxxxx** and click **Connect**.

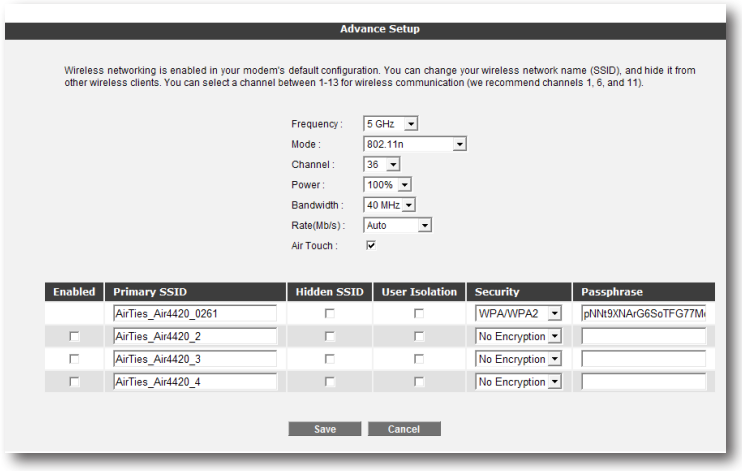
3.2.2 Wireless Network Settings

From Advanced Settings in AirTies Network Assistant, when you click the **WIRELESS** menu, you will be in the **Wireless Connections** screen that lists all the wireless clients connected to the AirTies device, grouped by wireless SSID.

- The **Wireless Network Active** box lets you enable or disable the wireless feature of your device. By default this is enabled.


Wireless Connections
You can view all wireless clients connected to your modem on this page.
Wireless Network Active
Connected Clients
SSID : taylor SECURITY : WPA/WPA2 STATUS : Active
MAC Address Name Signal Level Rate
00:21:6A:47:E2:20 TRISTL2017016.KRFT.Net Excellent 1 Mb/s
00:1E:65:FD:7C:26 jamestaylor.corp.airties.com Excellent 6 Mb/s
SSID : AirTies_Air5450_2 SECURITY : No Encryption STATUS : Passive
MAC Address Name Signal Level Rate
No Wireless client connected
SSID : AirTies_Air5450_3 SECURITY : No Encryption STATUS : Passive
MAC Address Name Signal Level Rate
No Wireless client connected
SSID : AirTies_Air5450_4 SECURITY : No Encryption STATUS : Passive
MAC Address Name Signal Level Rate
No Wireless client connected
Save
Cancel

Go to **Wireless Settings** under the **WIRELESS** menu to configure your wireless network.


Advance Setup
Wireless networking is enabled in your modem's default configuration. You can change your wireless network name (SSID), and hide it from other wireless clients. You can select a channel between 1-13 for wireless communication (we recommend channels 1, 6, and 11).
Frequency : 5 GHz
Mode : 802.11n
Channel : 36
Power : 100%
Bandwidth : 40 MHz
Rate(Mb/s) : Auto
Air Touch :
Enabled
Primary SSID
Hidden SSID
User Isolation
Security
Passphrase
AirTies_Air4420_0261 WPA/WPA2
AirTies_Air4420_2 No Encryption
AirTies_Air4420_3 No Encryption
AirTies_Air4420_4 No Encryption
Save
Cancel

- In the **Frequency** field you can choose whether to use 2.4Ghz or 5Ghz.
- In the **Mode** field, you can choose the wireless mode the device will operate in.

- In the **Channel** field, you can specify the frequency the device will broadcast in. If you are using 2.4Ghz then it is recommended that you choose one of 1, 6, or 11 as the channel number.
- **Power** displays the total transmitted power from your device.
- **Bandwidth** field allows you to specify whether to use 20MHz or 40MHz. When in 802.11n mode. 40MHz should be selected to achieve 300Mbps wireless data rates
- You can assign a name to your wireless network by entering the name in the **Primary SSID** field. This name is broadcast by your device.
- **Rate** shows the highest wireless data transfer rate supported by your device. It is set to **Auto** by default. This allows for automatic adjustment of data transfer rate based on distance and signal quality.

Up to four separate SSIDs can be configured. By default one is configured. To add additional SSIDs you need to check the Enabled check box.

- Primary SSID is the name that the wireless device broadcasts. This is the name that can be seen on computers when you select what wireless device to connect to.
- Checking the **Hidden SSID** box will hide your SSID during broadcast. This is not recommended since hiding the SSID will prevent laptops from seeing your network within their range.
- Checking **User Isolation** will prevent clients connecting to your network from connecting to each other.
- The security level can be set in the **Security** drop down box. This should be set to the highest security level WPA/WPA2.
- The passphrase for the wireless connection is set in the “Passphrase” section. This should contain at least 8 characters.
- It is possible to set up 4 wireless SSIDs to have multiple networks.

Click “**Save**” to store your settings.

3.2.3 Wireless Security Settings

It is not necessary to configure wireless security to enable wireless communication. However, due to growing importance of data security, it is strongly recommended that you choose one of the security protocols described below that best fits your needs.

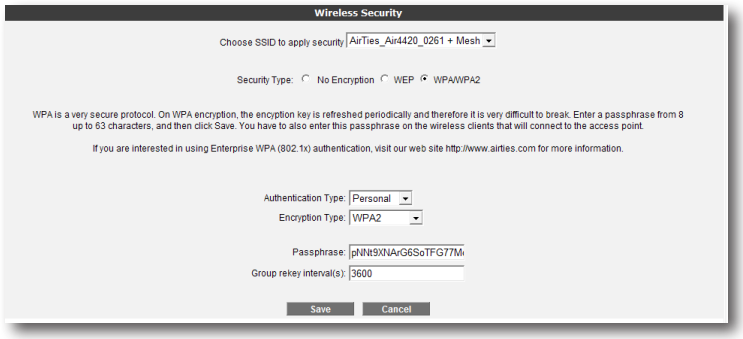
Wi-Fi Protected Access (WPA), WPA2, and Wired Equivalent Privacy (WEP) are wireless encryption protocols used to encrypt the data traffic within the wireless network. It is recommended that you use the most secure standard, which is WPA2.

MAC Address Filtering allows you to control which network cards can connect to the AirTies device and share your Internet access. For your wireless network security, it is recommended that both MAC Address filtering and WPA2 wireless encryption protocols be activated.

WPA2 Security Settings

WPA2, defined by the IEEE 802.11i standard, is one of the latest wireless encryption methods. If you would like to use WPA2 in your wireless network, all the wireless adapters in your network should support WPA2. For Centrino platform computers, it is necessary to download the WPA2 updates for the Windows XP operating system to be able to use WPA2 (www.microsoft.com). To enable WPA2 encryption:

1. Go to **Wireless Security Settings** under the **WIRELESS** menu of the Web interface of your device.
2. From the Security drop down box of the first **SSID** select **WPA2**.

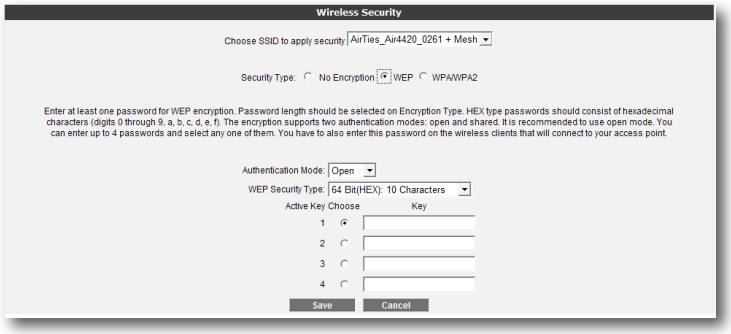

Wireless Security
Choose SSID to apply security
AirTies_Air4420_0261 + Mesh
Security Type:
No Encryption
WEP
WPA/WPA2
WPA is a very secure protocol. On WPA encryption, the encyption key is refreshed periodically and therefore it is very difficult to break. Enter a passphrase from 8 up to 63 characters, and then click Save. You have to also enter this passphrase on the wireless clients that will connect to the access point.
If you are interested in using Enterprise WPA (802.1x) authentication, visit our web site http://www.airties.com for more information.
Authentication Type:
Personal
Encryption Type:
WPA2
Passphrase:
Group rekey interval(s):
3600
Save
Cancel

3. Select WPA/WPA2 from **Security Type.**
4. Enter a Passphrase that is 8 to 63 characters long (use a combination of letters and digits) in the **Passphrase** field. Make sure you choose a key that is not easy to guess. Click **Save**.
5. You must activate WPA2 and set the same network key in all the devices that will communicate with your AirTies device.

WEP Security Settings

WEP is less secure then WPA and should only be used if your PC's wireless card does not support WPA. To configure WEP secutiry

1. Go to **Wireless Security Settings** under the **WIRELESS** menu of the Web interface of your device.
2. From the Security drop down box of the first **SSID** select **WEP**.


Wireless Security
Choose SSID to apply security
AirTies_Air4420_0261 + Mesh
Security Type:
No Encryption
WEP
WPA/WPA2
Enter at least one password for WEP encryption. Password length should be selected on Encryption Type. HEX type passwords should consist of hexadecimal characters (digits 0 through 9, a, b, c, d, e, f). The encryption supports two authentication modes: open and shared. It is recommended to use open mode. You can enter up to 4 passwords and select any one of them. You have to also enter this password on the wireless clients that will connect to your access point.
Authentication Mode:
Open
WEP Security Type:
64 Bit(HEX): 10 Characters
Active Key Choose
Key
1
2
3
4
Save
Cancel

3. Select **Open** for **Authentication Mode**.
4. For **WEP Security Type** you can select:

   a. 10 Hexadecimal characters (A-F and 0-9) for 64-bit encryption.

   b. 5 ASCII characters for 64-bit encryption.

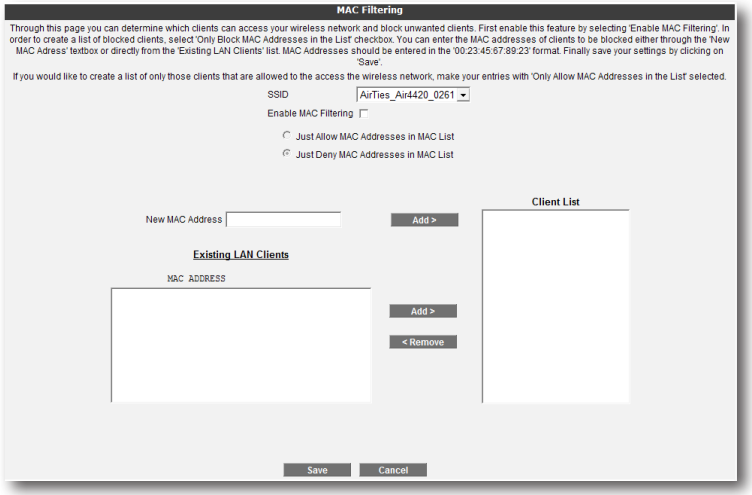
   c. 26 Hexadecimal characters for 128-bit encryption.

   d. 13 ASCII characters for 123-bit encryption.

5. You can enter up to 4 network keys and choose the one you want to use. Click **Save**.
6. You must activate WEP and set the same network key in all the devices that will communicate with your AirTies device.

3.2.4 MAC Filtering

1. Click on **MAC Filtering** under the **WIRELESS** menu of the Web interface of your device.
2. Select the **SSID** that you want to configure MAC Filtering for.
3. Check the **Enable MAC** Filtering box.
4. To add the devices that will be permitted to access the wireless network:
   - Select **Just Allow MAC Addresses in MAC** List.
   - For each device to be allowed access, enter the wireless MAC address of the device (e.g."00-14-38-15-60-DD") in the **New MAC Address** field and then click the **ADD** button.


MAC Filtering
Through this page you can determine which clients can access your wireless network and block unwanted clients. First enable this feature by selecting 'Enable MAC Filtering'. In order to create a list of blocked clients, select 'Only Block MAC Addresses in the List' checkbox. You can enter the MAC addresses of clients to be blocked either through the 'New MAC Adress' textbox or directly from the 'Existing LAN Clients' list. MAC Addresses should be entered in the '00:23:45:67:89:23' format. Finally save your settings by clicking on 'Save'.
If you would like to create a list of only those clients that are allowed to the access the wireless network, make your entries with 'Only Allow MAC Addresses in the List' selected.
SSID
AirTies_Air4420_0261
Enable MAC Filtering
Just Allow MAC Addresses in MAC List
Just Deny MAC Addresses in MAC List
Client List
New MAC Address
Add >
Existing LAN Clients
MAC ADDRESS
Add >
< Remove
Save
Cancel

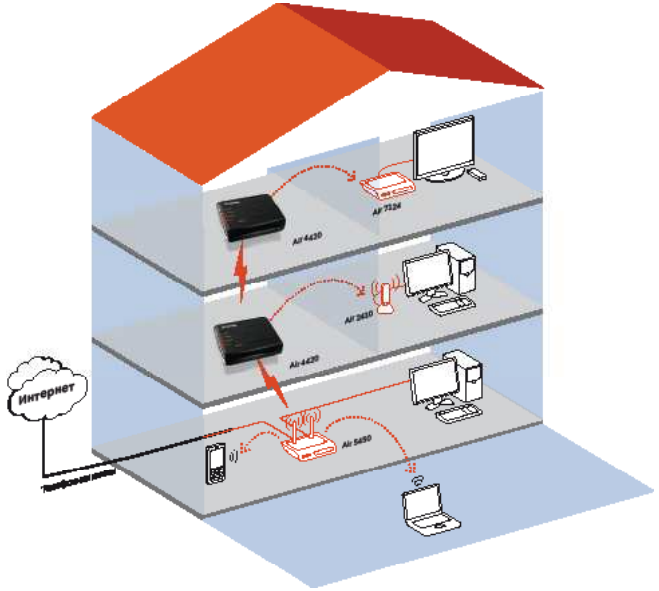
5. To add devices that will be blocked from accessing the wireless network:
   - Select **Just Deny MAC Addresses in MAC List**.
   - For each device to be blocked, enter the wireless MAC address of the device in the **New MAC Address** field and then click the **ADD** button.
6. Click **Save**.

Your AirTies device supports 802.1x Authentication protocol as well. For detailed information about how to setup 802.1x security, please check the AirTies Website at www.airties.com .

3.2.5 AirTies Mesh Settings

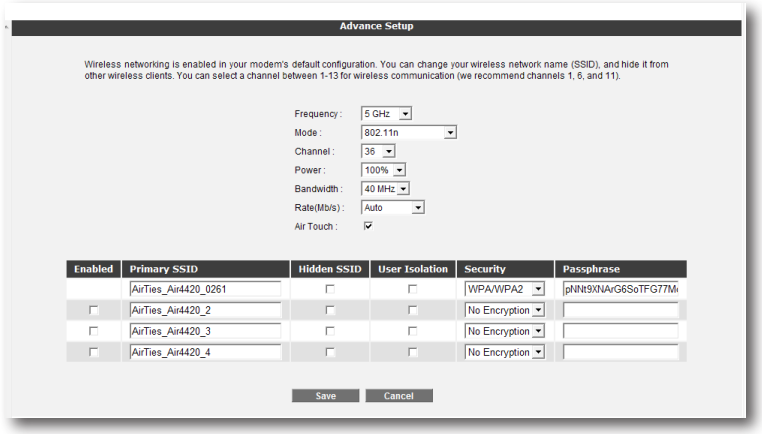
AirTouch technology automatically configures two devices to create a MESH together. Simply push the AirTouch button on the two devices that you want to configure a MESH between. MESH can also be configured manually.

AirTies Mesh Technology resolves weak wireless signal and coverage area problems often encountered in multi-story concrete buildings. To extend wireless coverage area, it is necessary to use AirTies access point devices functioning in repeater mode. The access points function as repeaters and communicate with each other via a special protocol that maintains the signal strength over long distances and through barriers such as concrete walls. Computers connect to the access point with the strongest signal and get to the device through the Mesh Network. This way, the wireless coverage area can be extended to the maximum while the signal strength problems through barriers are resolved.

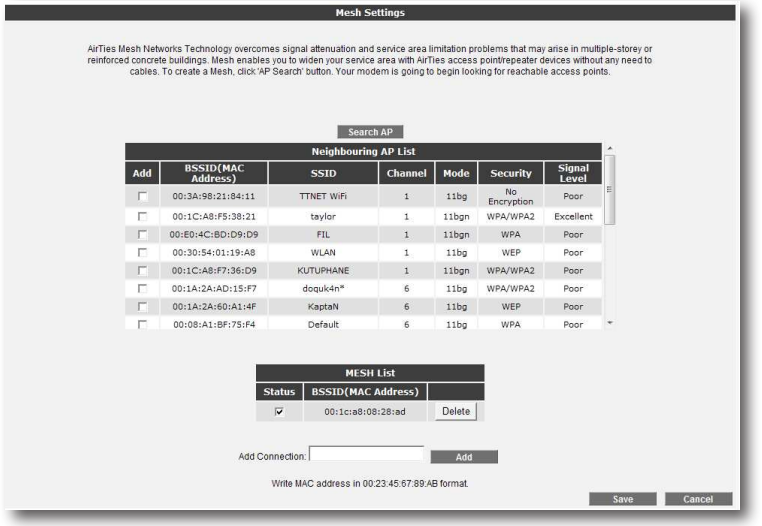


To setup a Mesh Network with your device:

1. Go to **Wireless Settings** under the **WIRELESS** menu of the web interface of your device. Select a channel for your Mesh network to operate in (it is recommended that you use one of channels “1”, “6”, or “11”). You should select the same channel on all the wireless access point devices that form the Mesh network.



Go to **MESH** under the **WIRELESS** menu of the Web interface of your device. Click **Search AP**, a list of access points that are detected will be displayed. Check the box for the access point(s) with signal strength of -68dBm or better that you would like your device to setup a Mesh connection with.


Mesh Settings
AirTies Mesh Networks Technology overcomes signal attenuation and service area limitation problems that may arise in multiple-storey or reinforced concrete buildings. Mesh enables you to widen your service area with AirTies access point/repeater devices without any need to cables. To create a Mesh, click 'AP Search' button. Your modem is going to begin looking for reachable access points.
Search AP
Neighbouring AP List
Add
BSSID(MAC Address)
SSID
Channel
Mode
Security
Signal Level
00:3A:98:21:84:11 TTNET WiFi 1 11bg No Encryption Poor
00:1C:A8:F5:38:21 taylor 1 11bgn WPA/WPA2 Excellent
00:E0:4C:BD:D9:D9 FIL 1 11bgn WPA Poor
00:30:54:01:19:A8 WLAN 1 11bg WEP Poor
00:1C:A8:F7:36:D9 KUTUPHANE 1 11bgn WPA/WPA2 Poor
00:1A:2A:AD:15:F7 doquk4n* 6 11bg WPA/WPA2 Poor
00:1A:2A:60:A1:4F KaptaN 6 11bg WEP Poor
00:08:A1:BF:75:F4 Default 6 11bg WPA Poor
MESH List
Status
BSSID(MAC Address)
00:1c:a8:08:28:ad
Delete
Add Connection:
Add
Write MAC address in 00:23:45:67:89:AB format.
Save
Cancel

2. Click **Save** to complete the Mesh settings for your device.

3. The same Mesh settings should be made on all the AirTies access points selected above. You can find detailed information about Mesh settings for access point devices in their user manuals.

Important: All AirTies devices that form the Mesh Network should operate on the same channel.

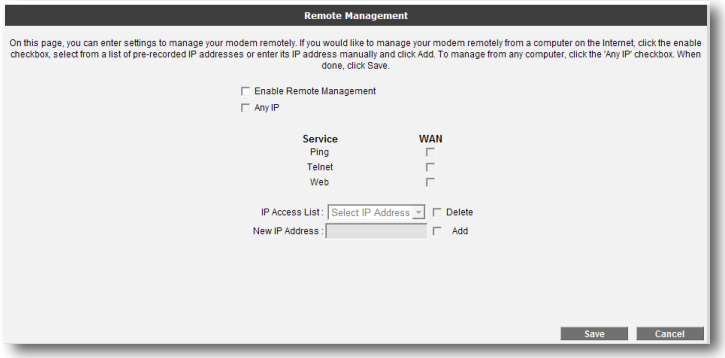
3.3 Management

4. From the MANAGEMENT menu you can configure how the device is managed.
5.
6. To change the password used to protect the Web UI. Select Password Settings.

Password Settings
You can define a password to protect user interface.
It is recommended that you change the factory default password to your preference.
Current Password:
New Password:
Confirm Password:
Save
Cancel

Enter the current password and the new password twice. Select Save to save your settings. The new password will be required next time you access the device settings. AirTies Network Assistant will also request this password to allow for the device to be monitored and managed.

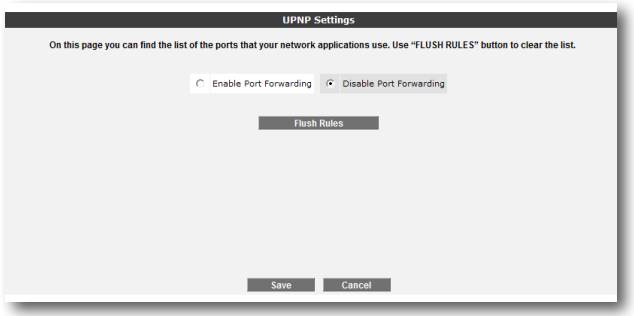
To allow remote management from the Internet select Remote Management.


Remote Management
On this page, you can enter settings to manage your modem remotely. If you would like to manage your modem remotely from a computer on the Internet, click the enable checkbox, select from a list of pre-recorded IP addresses or enter its IP address manually and click Add. To manage from any computer, click the 'Any IP' checkbox. When done, click Save.
Enable Remote Management
Any IP
Service
WAN
Ping
Telnet
Web
IP Access List :
Select IP Address
Delete
New IP Address :
Add
Save
Cancel

Please note that allowing remote management should only be performed by experienced users. To enable remote management of your device, first click the “Enable Remote Management” check box. If you check the “Any IP” box, your router can be managed remotely from any computer that has a WAN IP.
If “Any IP” is not checked, you have to add the WAN IP address of the computer from which you would like to remotely manage your device to the “IP Access List”. To do this, enter the WAN IP address in the “New IP Address” field and click the “Add” box.
After saving, the WAN IP address you have entered will appear in the “IP Access List”. If you select this address from the list and click “Save”, remote management will be activated for this address. If you want to remove an IP address from the list, select the address from the list, click on the “Delete” checkbox and then click “Save”.
You can also specify which services will be available to the remote management computers on this page.

3.4 UPNP

Universal Plug and Play is a protocol that allows devices on the network automatically interoperate with each other. To enable UPnP port forwarding select UPNP Settings under the UPNP menu.

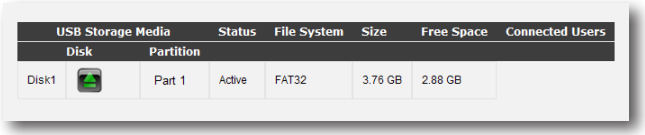

UPNP Settings
On this page you can find the list of the ports that your network applications use. Use “FLUSH RULES” button to clear the list.
Enable Port Forwarding
Disable Port Forwarding
Flush Rules
Save
Cancel

Select **Enable Port Forwarding**. Click **Save** to save your settings.

3.5 USB Devices

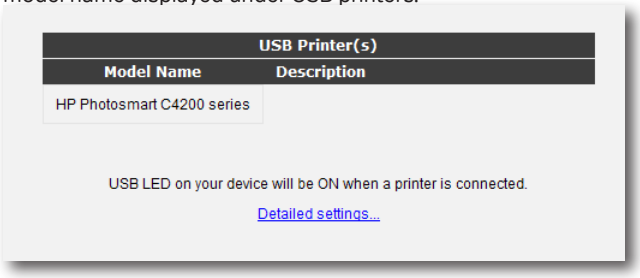
Your device supports USB disks and printers. If you want to use a USB device then you should plug the USB cable into your AirTies device.
The USB DEVICES menu will show the status of USB devices attached.

If a USB disk is attached then you should see the disk appear under USB Storage Media. The partition, file system, size and free space is shown.



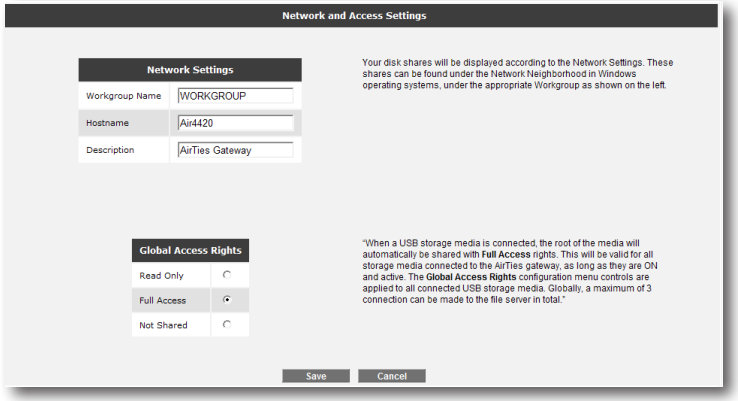
If you want to remove the disk then you should click the green icon on the left hand side.. This will safely disconnect your USB drive and allow you to disconnect. **Warning:** Never physically disconnect storage media without safely removing it first.
A shortcut for the disk will be displayed. Clicking this shortcut from Windows PCs will open up the USB disk in an explorer folder. The USB disk is also accessible from AirTies Network Assistant (see above).

If a USB printer is attached to your USB port then you should see the printer model name displayed under USB printers.


USB Printer(s)
Model Name
Description
HP Photosmart C4200 series
USB LED on your device will be ON when a printer is connected.
Detailed settings...

Printers can be configured using **AirTies Network Assistant.**

The network and access settings can be configured in the **Network and Access Settings** menu.


Network and Access Settings
Network Settings
Workgroup Name
WORKGROUP
Hostname
Air4420
Description
AirTies Gateway
Your disk shares will be displayed according to the Network Settings. These shares can be found under the Network Neighborhood in Windows operating systems, under the appropriate Workgroup as shown on the left.
Global Access Rights
Read Only
Full Access
Not Shared
"When a USB storage media is connected, the root of the media will automatically be shared with Full Access rights. This will be valid for all storage media connected to the AirTies gateway, as long as they are ON and active. The Global Access Rights configuration menu controls are applied to all connected USB storage media. Globally, a maximum of 3 connection can be made to the file server in total."
Save
Cancel

The Windows workgroup name, hostname and description of the USB shared storage can be changed. The workgroup name should only be changed if you gave changed the default workgroup name on your Windows PC. The host name is the name used on the network to access the storage.
The access rights for the disk can be configured for all users. Read only access means users will not be able to write to the disk. Full access means that all users will be able to read and write to the disk. **Not Shared** means that the disk will not be available for sharing.
Click **Save** to save your changes.

3.6 Media Server

Air 4420-TV products contain a Media Server. The Media Server will share videos, music and photos from a USB disk attached to the Air 4420's USB port. Media can be viewed on a DLNA / UPnP AV compatible Media Player by locating the media server named **Air4420** and browsing and playing the contents.

Media Server can be configured from the Web interface of your device:

1. Go to the "**MEDIA SERVER**" menu of your device. From here you can enable or disable the Media Server. By default the Media Server is enabled.
2. Click "**Save**" to complete the Media Server settings for your device.

   Note that the Media Server requires a USB disk to be inserted into the USB port of your device otherwise the service will not be enabled.

The contents of the drive can be managed using AirTies Network Assistant or via a network path (see USB Devices instructions). Any new media placed on the drive will be shared by the Media Server.

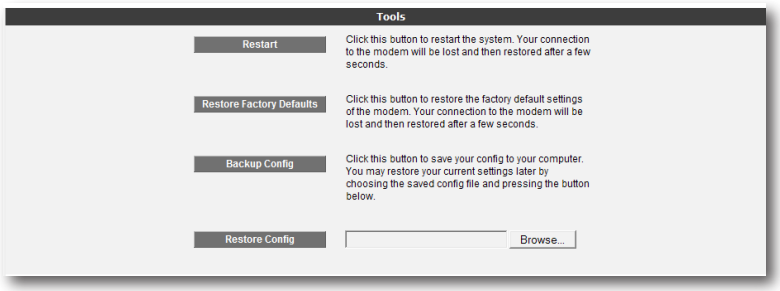
The files that can be played on your Media Player depends upon the codec and file container support offered by your Media Player. Please consult your Media Player's documentation for a list of codecs and file containers that it supports.

AirTies Media Server has been tested for interoperability on a number of Media Players. Please visit www.airties.com for a current list of tested devices.

3.7 Tools

On this page, you can restart your device, reset it to factory defaults, backup its current configuration or restore from a previous backup. To get to the **Tools** screen, select **TOOLS** from the main menu of the Web interface.

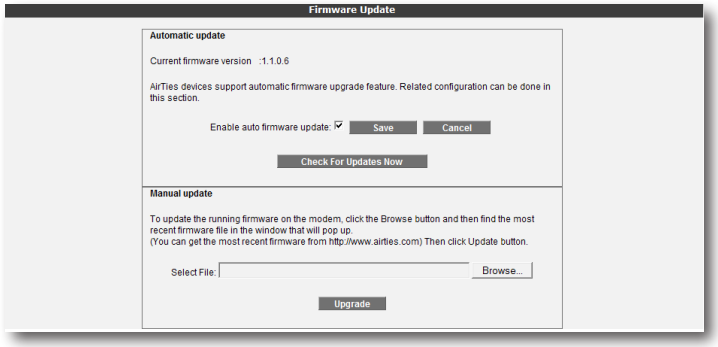
- The **Restart** button restarts your router remotely. During this operation, your connection to the router will be lost. You can reconnect after the router comes back up.
- The **Restore Factory Defaults** button allows you to reset your router back to factory defaults remotely. This will clear all the current settings on your router.
- **Backup Config** lets you save the current settings of your router onto your computer. When you click the **Backup Config** button, your router will create a file called **config.bin** to be saved on your computer. You can restore this configuration later using the **Restore Config** button.
- **Restore Config** lets you restore a previously saved configuration onto your router. Click the **Browse** button to locate the **config.bin** file that was previously saved, and then press the **Restore Config** button to restore your settings from this file onto your router.


Tools
Restart
Click this button to restart the system. Your connection to the modem will be lost and then restored after a few seconds.
Restore Factory Defaults
Click this button to restore the factory default settings of the modem. Your connection to the modem will be lost and then restored after a few seconds.
Backup Config
Click this button to save your config to your computer. You may restore your current settings later by choosing the saved config file and pressing the button below.
Restore Config
Browse...

3.7.1 Firmware Update

Your device is configured to automatically check for updates and update itself if it finds an update. The process to check for updates approximately every 30 days. By default this is enabled. You can disable this by unchecking the **Enable auto firmware update** and clicking **Save**.
You can check for updates by clicking **Check For Updates Now**. The device will contact AirTies to see if there are updates. If there are updates then they will be downloaded and the device will upgrade. After the firmware is successfully installed, the system will restart automatically. Therefore, connection to the device will be lost. You will need to reconnect if you would like to reconfigure any settings. Your router must stay ON during the upgrade.

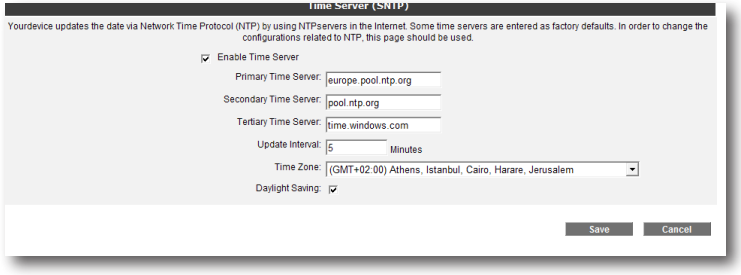
If you want to manually update the firmware running on the device, go to **Firmware Upgrade** under the **TOOLS** menu. Click **Browse** and locate the most recent router firmware file on your computer in the pop-up window that appears. (You can download the most recent firmware file from the AirTies website www.airties.com). Then click **Upgrade**.


Firmware Update
Automatic update
Current firmware version :1.1.0.6
AirTies devices support automatic firmware upgrade feature. Related configuration can be done in this section.
Enable auto firmware update:
Save
Cancel
Check For Updates Now
Manual update
To update the running firmware on the modem, click the Browse button and then find the most recent firmware file in the window that will pop up.
(You can get the most recent firmware from http://www.airties.com) Then click Update button.
Select File:
Browse...
Upgrade

After the firmware is successfully installed, the system will restart automatically. Therefore, connection to the device will be lost. You will need to reconnect if you would like to reconfigure any settings. Your router must stay ON during the upgrade.

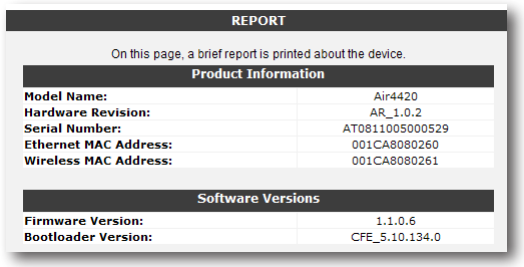
3.7.2 Time Setting

Your device gets the current time and date from Internet time servers using SNTP protocol. Default factory settings include some time servers. To change the time servers used by your device go to Time Settings under the TOOLS menu. In the Time Server (SNTP) window that come up, enter the time server information. Click **Save** to save your changes.


Time Server (SNTP)
Yourdevice updates the date via Network Time Protocol (NTP) by using NTPservers in the Internet. Some time servers are entered as factory defaults. In order to change the configurations related to NTP, this page should be used.
Enable Time Server
Primary Time Server: europe.pool.ntp.org
Secondary Time Server: pool.ntp.org
Tertiary Time Server: time.windows.com
Update Interval: 5 Minutes
Time Zone: (GMT+02:00) Athens, Istanbul, Cairo, Harare, Jerusalem
Daylight Saving:
Save
Cancel

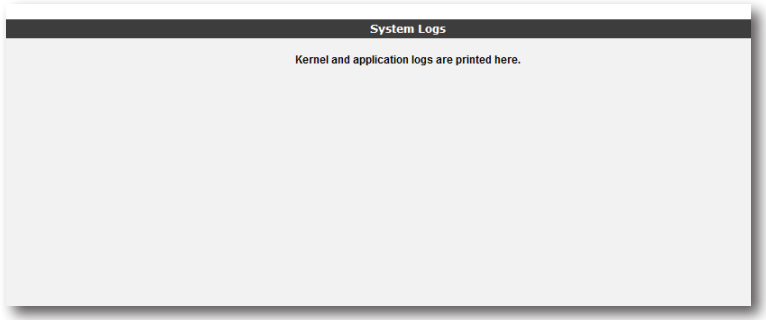
3.8 Report

The REPORT menu displays information about the main characteristics of your device such as product information and software versions.



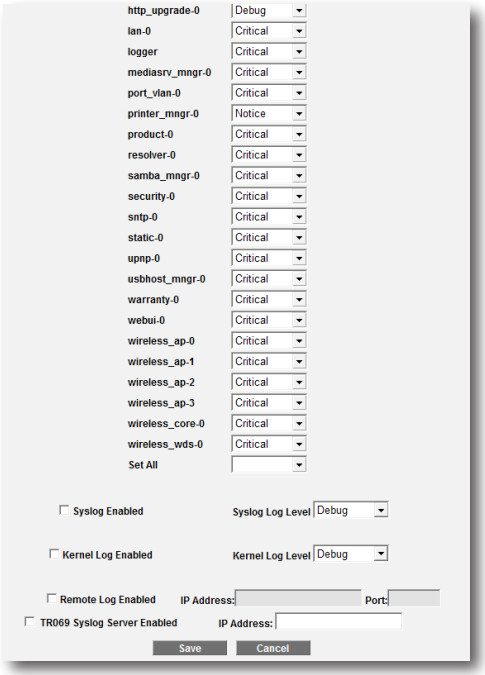
3.8.1 System Logs

The System Logs under REPORT menu displays detailed system logs about the system activity and the applications that were active since the device last started.



3.8.2 Log Settings

Log Settings screen allows you to set detail levels for application logs. You can also specify a remote logging destination.



4 TECHNICAL PROPERTIES

- **Ports:** Power (12V DC), 1 x 10/100 Ethernet(RJ-45, auto MDI/MDIX), USB
- **Connection protocols:** PPPoE, RFC1483 Bridging, RFC1483 Routing,
- **Router and Firewall:** Advanced Anti-DoS SPI Firewall; IP and MAC address based filtering; Port forwarding; DMZ; Static Routing; DHCP server and client; DNS Proxy; PPP (PAP/CHAP/MSCHAP)
- **Wireless transmit power:** Max 20 dBm EIRP @2,4GHz. Max 23dBm EIRP @5GHz.
- **Wireless security:** WPA2-Enterprise, WPA2-Personal, WPA-Enterprise, WPA-Personal, WEP (64/128 bit), MAC address filtering, SSID hiding
- **Wireless standards:** IEEE 802.1b, 802.11g, 802.11a, 802.11n, 802.11d, 802.11e, 802.11i standards compliant.
- **Wireless communication rates:** 1,2, 5.5, 6, 9, 11, 12, 24, 36, 48, 54, 72, 144, 150, 300
- **Frequency range:** ETSI 2400 MHz - 2483 MHz (13 channels with 3 not overlapping). 5.150-5.250 (UNII1), 5.250-5.350 (UNII2), 5.475-5.725 (Mid Band UNII), 5.725-5.825 (UNII3).
- UPnP Plug & Play feature
- **LEDs:** Power, Wireless, USB, Ethernet, AirTouch
- AirTouch Button
- **Mounting:** wall mount or desktop use.

5 PHYSICAL CHARACTERISTICS

- **Dimensions:** 90mm x 70mm x 20mm
- **Weight:** TBDg
- **Power:** 12V DC, 1 A
- **Adapter operating voltage:** 100V-240V AC
- **Operating Temperature:** 0°C ~ 40°C
- **Storage Temperature:** -40°C ~ 70°C
- **Operating Humidity:** %10 ~ %90

AirTies

www.airties.com

AirTouch

Three year warranty

24/7 people support
0845 557 5782 (from United Kingdom)
+90 212 444 0239 (International)

Visit www.airties.com for full list of technical support telephone numbers.

REV21102010

AirTies Air 4420-TV

Описание Характеристики

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